

Hand and Edge Tool Manufacturing: 2002

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2002 Economic Census

Manufacturing

Industry Series



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U.S. Department of Commerce
Economics and Statistics Administration
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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
332212, Hand and edge tool manufacturing	2002..	1 078	1 186	44 893	1 610 738	32 846	63 854	965 418	4 208 098	2 581 490	6 793 268	'173 815
	2001..	N	N	46 728	1 615 523	33 839	65 540	957 728	4 025 621	2 704 661	6 800 322	193 514
	2000..	N	N	52 204	1 774 205	38 472	74 721	1 085 539	4 634 064	2 759 105	7 375 433	303 130
	1999..	N	N	53 188	1 739 315	39 735	76 887	1 076 854	4 655 685	2 708 716	7 325 089	294 852
	1998..	N	N	51 362	1 709 131	38 868	78 135	1 033 598	4 354 960	2 578 184	6 921 129	251 409
	1997..	1 164	1 268	50 598	1 639 098	37 657	76 023	1 004 772	4 296 327	2 420 554	6 713 485	237 147

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
332212, Hand and edge tool manufacturing												
United States	1	1 186	388	44 893	1 610 738	32 846	63 854	965 418	4 208 098	2 581 490	6 793 268	173 815
Arkansas	—	8	5	1 017	30 087	926	1 840	23 903	99 930	46 544	143 618	11 557
California	1	160	43	4 127	167 876	2 559	5 199	67 998	323 932	199 921	526 746	24 814
Connecticut	1	36	13	1 573	63 376	1 260	2 538	44 363	131 421	83 691	215 602	3 757
Florida	5	30	4	598	20 893	474	1 040	14 195	71 682	50 077	121 456	2 208
Georgia	1	17	5	601	22 480	404	843	13 121	75 155	26 951	101 398	1 248
Illinois	—	91	38	4 205	154 382	3 099	6 307	94 191	396 908	160 803	526 789	11 048
Indiana	1	24	12	1 036	39 599	764	1 426	23 901	101 564	63 119	163 989	1 955
Iowa	3	14	3	458	18 204	325	592	10 629	49 001	26 715	75 371	3 569
Kansas	—	8	5	306	9 510	203	445	4 818	29 083	14 413	41 064	851
Kentucky	1	18	5	416	15 106	325	663	10 660	29 469	17 399	46 813	1 527
Michigan	1	96	32	2 490	95 647	1 610	2 977	51 217	199 537	102 662	304 373	8 575
Minnesota	—	33	14	2 205	99 501	1 171	1 686	34 029	220 968	322 572	546 621	4 052
Missouri	2	34	7	483	15 340	367	658	10 200	121 065	28 040	149 299	3 118
New Jersey	—	44	16	1 833	55 406	1 487	2 816	39 027	179 863	84 788	264 224	9 364
New York	3	63	21	1 476	56 101	1 051	2 052	31 914	132 756	121 450	257 801	5 594
North Carolina	—	28	13	1 832	64 898	1 460	2 952	45 360	201 284	179 967	385 934	5 422
Ohio	—	84	36	3 823	139 059	2 552	4 775	77 167	423 468	267 507	695 576	35 148
Pennsylvania	1	60	20	1 788	57 653	1 378	2 418	36 429	161 580	88 421	255 372	7 288
Rhode Island	2	11	2	164	5 983	112	216	2 881	13 668	7 117	20 689	198
Tennessee	1	27	9	1 407	46 346	1 154	2 254	33 899	68 126	78 056	146 599	9 451
Texas	—	36	10	1 675	53 017	1 436	2 843	40 737	161 202	95 632	253 445	4 360
West Virginia	—	6	3	746	26 046	512	1 027	20 568	76 081	33 608	116 562	900

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
332212, Hand and edge tool manufacturing	
Companies ¹	number.. 1 078
All establishments ²	number.. 1 186
Establishments with 1 to 19 employees	number.. 798
Establishments with 20 to 99 employees	number.. 276
Establishments with 100 employees or more	number.. 112
All employees ³	number.. 44 893
Total compensation	\$1,000.. 2 026 577
Annual payroll	\$1,000.. 1 610 738
Total fringe benefits	\$1,000.. 415 839
Production workers, average for year	number.. 32 846
Production workers on March 12	number.. 33 525
Production workers on May 12	number.. 33 131
Production workers on August 12	number.. 32 498
Production workers on November 12	number.. 32 183
Production worker hours	\$1,000.. 63 854
Production worker wages	\$1,000.. 965 418
Total cost of materials	\$1,000.. 2 581 490
Materials, parts, containers, packaging, etc., used	\$1,000.. 2 034 329
Resales	\$1,000.. 386 890
Purchased fuels	\$1,000.. 25 192
Purchased electricity	\$1,000.. 64 101
Contract work	\$1,000.. 70 978
Quantity of electricity purchased for heat and power	1,000 kWh.. 996 971
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 418
Total value of shipments	\$1,000.. 6 793 268
Primary products value of shipments	\$1,000.. 5 626 339
Secondary products value of shipments	\$1,000.. 513 738
Total miscellaneous receipts	\$1,000.. 653 191
Value of resales	\$1,000.. 592 971
Contract receipts	\$1,000.. 13 729
Other miscellaneous receipts	\$1,000.. 46 491
Primary products specialization ratio	percent.. 92
Value of primary products shipments made in all industries	\$1,000.. 6 179 253
Value of primary products shipments made in this industry	\$1,000.. 5 626 339
Value of primary products shipments made in other industries	\$1,000.. 552 914
Coverage ratio	percent.. 91
Value added	\$1,000.. 4 208 098
Total inventories, beginning of year	\$1,000.. 1 201 634
Finished goods inventories	\$1,000.. 518 412
Work-in-process inventories	\$1,000.. 347 068
Materials and supplies inventories	\$1,000.. 336 154
Total inventories, end of year	\$1,000.. 1 183 106
Finished goods inventories	\$1,000.. 538 488
Work-in-process inventories	\$1,000.. 323 312
Materials and supplies inventories	\$1,000.. 321 306
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. '2 969 437
Total capital expenditures (new and used)	\$1,000.. '173 815
Buildings and other structures (new and used)	\$1,000.. '17 553
Machinery and equipment (new and used)	\$1,000.. '156 262
Automobiles, trucks, etc., for highway use	\$1,000.. '5 864
Computers and peripheral data processing equipment	\$1,000.. '13 846
All other expenditures for machinery and equipment	\$1,000.. '136 552
Total retirements	\$1,000.. '140 271
Gross value of depreciable assets at end of year	\$1,000.. '3 002 981
Depreciation charges during year	\$1,000.. '204 523
Total rental payments	\$1,000.. 88 217
Buildings and other structures	\$1,000.. 55 608
Machinery and equipment	\$1,000.. 32 609
Total other expenses ⁴	\$1,000.. 641 286
Response coverage ratio ⁵	percent.. 78
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 46 684
Communications services ⁴	\$1,000.. 14 305
Legal services ⁴	\$1,000.. 20 044
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 8 664
Advertising and promotional services ⁴	\$1,000.. 64 986
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 11 434
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 5 947
Management consulting and administrative services ⁴	\$1,000.. 24 847
Taxes and license fees ⁴	\$1,000.. 18 735
All other expenses ⁴	\$1,000.. 425 640

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
332212, Hand and edge tool manufacturing											
All establishments	1	1 186	44 893	1 610 738	32 846	63 854	965 418	4 208 098	2 581 490	6 793 268	'173 815
Establishments with—											
1 to 4 employees	9	418	f	D	D	D	D	D	D	D	D
5 to 9 employees	6	183	1 217	42 842	960	1 898	29 546	100 708	47 293	149 681	'4 026
10 to 19 employees	3	197	2 824	98 606	2 043	3 982	59 247	216 057	99 740	317 400	'8 201
20 to 49 employees	2	190	5 949	206 260	4 204	8 155	120 740	515 194	230 318	747 308	'27 197
50 to 99 employees	1	86	5 834	199 310	4 336	8 558	120 887	440 746	259 756	705 964	'16 503
100 to 249 employees	—	74	11 508	401 552	8 555	16 481	244 161	1 268 542	755 041	2 005 205	'58 614
250 to 499 employees	—	28	9 583	362 544	7 368	15 032	242 222	906 615	699 240	1 614 342	'40 106
500 to 999 employees	—	9	5 950	217 163	4 111	7 939	114 499	595 157	222 305	820 983	15 592
1,000 to 2,499 employees	—	1	g	D	D	D	D	D	D	D	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	489	1 423	47 175	1 182	2 290	33 954	120 586	59 443	179 940	'3 203

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
332212	Hand and edge tool manufacturing ...	1 186	44 893	1 610 738	32 846	63 854	965 418	4 208 098	2 581 490	6 793 268	'173 815
3322122	Mechanics' hand service tools.....	128	16 097	579 561	12 198	24 161	365 685	1 432 984	1 035 633	2 465 868	'68 452
3322123	Edge tools, hand-operated.....	41	3 861	147 646	2 642	5 287	76 960	569 040	336 554	917 659	'20 660
3322125	Dies and interchangeable cutting tools, for machines and power-driven handtools.....	176	7 246	244 254	5 398	10 412	153 955	606 766	306 193	907 479	'19 498
3322128	All other miscellaneous handtools ..	106	8 156	254 581	6 499	12 416	178 217	792 578	500 087	1 307 242	'28 330
3322129	Precision measuring tools (inspection, quality control, tool room, and machinists')	83	5 253	242 816	2 756	5 055	94 023	468 746	240 076	692 348	'22 434

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
332212	Hand and edge tool manufacturing	2002.. N 1997.. N	X X	X X	6 179 253 5 950 367
3322122	Mechanics' hand service tools	2002.. N 1997.. N	X X	X X	2 404 489 N
33221221	Mechanics' slip joint pliers	2002.. N 1997.. N	X X	X X	290 333 N
3322122101	Mechanics' slip joint pliers millions.	2002.. 10 1997.. N	X X	S N	290 333 N
33221222	Mechanics' solid joint pliers	2002.. N 1997.. N	X X	X X	210 843 N
3322122206	Mechanics' solid joint pliers millions.	2002.. 18 1997.. N	X X	S N	210 843 N
33221224	Mechanics' wrenches	2002.. N 1997.. N	X X	X X	1 335 775 N
3322122416	Mechanics' socket wrenches, including sockets, drives (ratchet and other), extensions, etc.	2002.. 24 1997.. N	X X	X X	348 570 N
3322122421	Mechanics' open-end and box wrenches	2002.. 10 1997.. N	X X	X X	42 503 N
3322122426	Mechanics' torque wrenches	2002.. 10 1997.. N	X X	X X	64 282 N
3322122431	Mechanics' adjustable wrenches, including pipe wrenches millions.	2002.. 10 1997.. N	X X	S N	99 506 N
3322122436	Mechanics' combination open-end and box wrenches	2002.. 6 1997.. N	X X	X X	99 081 N
3322122441	Mechanics' wiring wrenches (including fish wire)	2002.. 35 1997.. N	X X	X X	578 170 N
3322122444	All other mechanics' wrenches	2002.. 17 1997.. N	X X	X X	103 663 N
33221223	Other mechanics' hand service tools	2002.. N 1997.. N	X X	X X	567 538 N
3322122311	Mechanics' ball peen hammers millions.	2002.. 6 1997.. N	X X	PT,0 N	7 254 N
3322122351	Screwdrivers	2002.. 27 1997.. N	X X	X X	165 160 N
3322122356	Automobile jacks, mechanical (excluding hydraulic and pneumatic)	2002.. 5 1997.. N	X X	X X	35 231 N
3322122361	Mechanics' tools for automotive use (excluding jacks), including wheel or gear pullers, valve tools, body or fender tools, etc.	2002.. 32 1997.. N	X X	X X	139 077 N
3322122398	Other mechanics' hand service tools (including blow torches and tape measures)	2002.. 32 1997.. N	X X	X X	220 816 N
3322122Y	Mechanics' hand service tools, nsk	2002.. N 1997.. N	X X	X X	N N
3322122YWV	Mechanics' hand service tools, nsk	2002.. N 1997.. N	X X	X X	N N
3322123	Edge tools, hand-operated	2002.. N 1997.. N	X X	X X	642 529 591 243
33221233	Other hand-operated edge tools (including agricultural and forestry edge handtools)	2002.. N 1997.. N	X X	X X	630 601 N
3322123301	Axes, adzes, hatchets, and chisels (hand-operated)	2002.. 21 1997.. N	X X	X X	55 444 N
3322123306	Professional and craft edge handtools (including palette knives, paperhanger knives, putty knives, scrapers, trimmers, etc.)	2002.. 39 1997.. N	X X	X X	373 112 N
3322123331	Other hand-operated edge tools (including kitchen, animal hand clippers, agricultural, and forestry edge handtools)	2002.. 28 1997.. N	X X	X X	202 045 N
3322123Y	Edge tools, hand-operated, nsk	2002.. N 1997.. N	X X	X X	11 928 288
3322123YWV	Edge tools, hand-operated, nsk	2002.. N 1997.. N	X X	X X	11 928 288
3322125	Dies and interchangeable cutting tools, for machines and power-driven handtools	2002.. N 1997.. N	X X	X X	794 078 833 765
33221251	Steel rule dies (except metal cutting), for machines and power-driven handtools	2002.. N 1997.. N	X X	X X	216 343 271 461
3322125101	Steel rule dies (except metal cutting), for machines and power-driven handtools	2002.. 81 1997.. 110	X X	X X	216 343 271 461
33221252	Other cutting dies, for use in cutting cloth, paper, leathers, etc. (excluding dies for cutting metal), for machines & power-driven handtools	2002.. N 1997.. N	X X	X X	150 529 239 857
3322125206	Other cutting dies, for use in cutting cloth, paper, leathers, etc. (excluding dies for cutting metal), for machines & power-driven handtools	2002.. 47 1997.. 79	X X	X X	150 529 239 857
33221253	All other woodcutting machine tools	2002.. N 1997.. N	X X	X X	406 458 308 001
3322125311	Dies and interchangeable woodcutting tools, for machine and power-driven handtools	2002.. 14 1997.. 13	X X	X X	71 974 43 553
3322125316	Machine knives	2002.. 35 1997.. 35	X X	X X	92 490 76 871
3322125321	Countersink, drill, and router bits for woodcutting	2002.. 22 1997.. 22	X X	X X	145 951 132 855
3322125333	All other woodcutting machine tools (including milling cutters)	2002.. 14 1997.. 20	X X	X X	96 043 54 722
3322125Y	Dies and interchangeable cutting tools, for machines and power-driven handtools, nsk	2002.. N 1997.. N	X X	X X	20 748 14 446

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
332212	Hand and edge tool manufacturing—Con.				
3322125	Dies and interchangeable cutting tools, for machines and power-driven handtools—Con.				
3322125Y	Dies and interchangeable cutting tools, for machines and power-driven handtools, nsk—Con.				
3322125YVV	Dies and interchangeable cutting tools, for machines and power-driven handtools, nsk.	2002.. N	X	X	20 748
		1997.. N	X	X	14 446
3322128	All other miscellaneous handtools	2002.. N	X	X	1 242 316
		1997.. N	X	X	N
33221281	Other handtools, including woodworking and metal working files and rasps, including precision files, (except edge tools)	2002.. N	X	X	1 238 605
		1997.. N	X	X	N
3322128101	Shovels, spades, scoops, telegraph spoons, and scrapers	2002.. 19	X	S	146 013
		1997.. N	X	N	N
3322128111	Light forged hammers, less than 4 lb (excluding ball peen hammers)	2002.. 19	X	94.3	39 382
		1997.. N	X	N	N
3322128116	Heavy forged handtools, sledges (4 lb or more), picks, pick mattocks, and mauls	2002.. 8	X	X	36 731
		1997.. N	X	X	N
3322128121	Steel handtool goods (forks, hoes, rakes, weeders, etc.)	2002.. 14	X	S	92 574
		1997.. N	X	N	N
3322128131	Soldering irons (electric)	2002.. 5	X	D	D
		1997.. N	X	N	N
3322128136	Clamps and vises (excluding machine tool accessories)	2002.. 25	X	X	74 077
		1997.. N	X	X	N
3322128141	Wheelbarrows	2002.. 4	X	X	D
		1997.. N	X	X	N
3322128151	Metal cutting shears (including aviation and tinners' snips, BX, and wire filament cutters)	2002.. 16	X	X	67 867
		1997.. N	X	X	N
3322128161	Tool-type scissors and shears	2002.. 13	X	X	124 740
		1997.. N	X	X	N
3322128199	Other handtools, including nonpowered lawnmowers, woodworking and metalworking files and rasps, and precision files, (except edge tools)	2002.. 91	X	X	623 272
		1997.. N	X	X	N
3322128Y	All other miscellaneous handtools, nsk.	2002.. N	X	X	3 711
		1997.. N	X	X	N
3322128YVV	All other miscellaneous handtools, nsk.	2002.. N	X	X	3 711
		1997.. N	X	X	N
3322129	Precision measuring tools (inspection, quality control, tool room, and machinists')	2002.. N	X	X	649 296
		1997.. N	X	X	701 831
33221291	Precision measuring tools (inspection, quality control, tool room, and machinists')	2002.. N	X	X	335 748
		1997.. N	X	X	417 545
3322129101	Precision measuring tools (inspection, quality control, tool room, and machinists'), comparators (excluding optical)	2002.. 12	X	X	73 836
		1997.. 8	X	X	D
3322129106	Precision measuring tools (inspection, quality control, tool room, and machinists'), fixture type, fixed size precision measuring limit gauges (American Gauge Design Type C58-61)	2002.. 25	X	X	23 061
		1997.. 34	X	X	38 125
3322129111	Precision measuring tools (inspection, quality control, tool room, and machinists'), thread type, fixed size precision measuring limit gauges (American Gauge Design Type C58-61)	2002.. 18	X	X	23 770
		1997.. 22	X	X	35 472
3322129116	Precision measuring tools (inspection, quality control, tool room, and machinists'), adjustable size	2002.. 11	X	X	40 268
		1997.. 5	X	X	D
3322129121	Precision measuring gauge blocks	2002.. 8	X	X	8 715
		1997.. 8	X	X	21 568
3322129126	Precision measuring dial indicators	2002.. 8	X	X	19 355
		1997.. 16	X	X	33 430
3322129131	Precision measuring micrometers and calipers	2002.. 4	X	X	18 848
		1997.. 8	X	X	27 724
3322129171	Other precision measuring tools, including industrial quality control laser systems and equipment, dividers, gear checking and surface texture measuring machines	2002.. 29	X	X	127 895
		1997.. N	X	X	N
33221292	Pneumatic and electronic precision measuring gauges (manual and automatic)	2002.. N	X	X	47 485
		1997.. N	X	X	76 933
3322129236	Pneumatic and electronic precision measuring gauges (manual and automatic)	2002.. 17	X	X	47 485
		1997.. 21	X	X	76 933
33221293	Coordinate and contour precision measuring machines (inspection and gauging)	2002.. N	X	X	175 741
		1997.. N	X	X	162 179
3322129341	Coordinate and contour precision measuring machines (inspection and gauging)	2002.. 15	X	X	175 741
		1997.. 20	X	X	162 179
33221294	Parts and accessories for machinists' precision measuring tools (sold separately)	2002.. N	X	X	7 952
		1997.. N	X	X	34 808
3322129451	Parts and accessories for machinists' precision measuring tools (sold separately)	2002.. 8	X	X	7 952
		1997.. 19	X	X	34 808
3322129Y	Precision measuring tools (inspection, quality control, tool room, and machinists'), nsk	2002.. N	X	X	82 370
		1997.. N	X	X	10 366
3322129YVV	Precision measuring tools (inspection, quality control, tool room, and machinists'), nsk	2002.. N	X	X	82 370
		1997.. N	X	X	10 366
332212W	Hand and edge tool manufacturing, nsk, total	2002.. N	X	X	446 545

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
332212	Hand and edge tool manufacturing—Con.				
332212W	Hand and edge tool manufacturing, nsk, total—Con.				
	1997..	N	X	X	325 018
332212WY	Hand and edge tool manufacturing, nsk, total	N	X	X	446 545
	2002..	N	X	X	325 018
332212WYWW	Hand and edge tool manufacturing, nsk, for nonadministrative-record establishments	N	X	X	283 547
	1997..	N	X	X	149 794
332212WYWY	Hand and edge tool manufacturing, nsk, for administrative-record establishments	N	X	X	162 998
	2002..	N	X	X	175 224
	1997..	N	X	X	

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p–10 to 19 percent estimated; q–20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3322122	Mechanics' hand service tools	
	United States	2 404 489
	..... 2002 ..	N
	..... 1997 ..	N
	California	58 904
	..... 2002 ..	N
	..... 1997 ..	N
	Connecticut	79 649
	..... 2002 ..	N
	..... 1997 ..	N
	Illinois	205 067
	..... 2002 ..	N
	..... 1997 ..	N
	Michigan	52 381
	..... 2002 ..	N
	..... 1997 ..	N
	Missouri	39 583
	..... 2002 ..	N
	..... 1997 ..	N
	New Jersey	32 655
	..... 2002 ..	N
	..... 1997 ..	N
	New York	72 706
	..... 2002 ..	N
	..... 1997 ..	N
	North Carolina	265 332
	..... 2002 ..	N
	..... 1997 ..	N
	Ohio	202 308
	..... 2002 ..	N
	..... 1997 ..	N
	Pennsylvania	94 190
	..... 2002 ..	N
	..... 1997 ..	N
	Texas	154 612
	..... 2002 ..	N
	..... 1997 ..	N
3322123	Edge tools, hand-operated	
	United States	642 529
	..... 2002 ..	591 243
	..... 1997 ..	N
	California	38 101
	..... 2002 ..	N
	..... 1997 ..	N
	Connecticut	38 483
	..... 2002 ..	12 048
	..... 1997 ..	N
	Illinois	26 556
	..... 2002 ..	20 969
	..... 1997 ..	N
	New Jersey	65 916
	..... 2002 ..	29 787
	..... 1997 ..	7 667
	New York	N
	..... 2002 ..	N
	..... 1997 ..	N
	Pennsylvania	14 271
	..... 2002 ..	21 627
	..... 1997 ..	N
3322125	Dies and interchangeable cutting tools, for machines and power-driven handtools	
	United States	794 078
	..... 2002 ..	833 765
	..... 1997 ..	47 190
	California	45 374
	..... 2002 ..	2 936
	..... 1997 ..	5 208
	Connecticut	24 467
	..... 2002 ..	27 187
	..... 1997 ..	42 482
	Georgia	82 050
	..... 2002 ..	26 513
	..... 1997 ..	48 532
	Illinois	36 453
	..... 2002 ..	63 542
	..... 1997 ..	11 830
	Indiana	35 457
	..... 2002 ..	11 493
	..... 1997 ..	53 160
	Michigan	30 252
	..... 2002 ..	27 076
	..... 1997 ..	51 678
	Minnesota	22 972
	..... 2002 ..	74 315
	..... 1997 ..	46 315
	Missouri	93 829
	..... 2002 ..	93 854
	..... 1997 ..	21 239
	New Jersey	33 829
	..... 2002 ..	9 105
	..... 1997 ..	14 602
	New York	72 696
	..... 2002 ..	13 560
	..... 1997 ..	N
	North Carolina	N
	..... 2002 ..	N
	..... 1997 ..	N
	Ohio	39 330
	..... 2002 ..	N
	..... 1997 ..	N
	Pennsylvania	90 738
	..... 2002 ..	N
	..... 1997 ..	N
	Tennessee	17 260
	..... 2002 ..	N
	..... 1997 ..	N
3322128	All other miscellaneous handtools	
	United States	1 242 316
	..... 2002 ..	N
	..... 1997 ..	N
	California	152 066
	..... 2002 ..	N
	..... 1997 ..	N
	Connecticut	82 416
	..... 2002 ..	N
	..... 1997 ..	N
	Illinois	116 802
	..... 2002 ..	N
	..... 1997 ..	N
	Kentucky	2 800
	..... 2002 ..	N
	..... 1997 ..	N
	Michigan	17 995
	..... 2002 ..	N
	..... 1997 ..	N
	Minnesota	35 233
	..... 2002 ..	N
	..... 1997 ..	N
	Missouri	3 808
	..... 2002 ..	N
	..... 1997 ..	N
	North Carolina	8 765
	..... 2002 ..	N
	..... 1997 ..	N
	Ohio	39 330
	..... 2002 ..	N
	..... 1997 ..	N
	Pennsylvania	90 738
	..... 2002 ..	N
	..... 1997 ..	N
	Tennessee	17 260
	..... 2002 ..	N
	..... 1997 ..	N

See footnotes at end of table.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997—Con.**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3322128	All other miscellaneous handtools—Con.	
	United States—Con.	
	1997..	N
	Texas	7 632
	2002..	
	1997..	N
3322129	Precision measuring tools (inspection, quality control, tool room, and machinists')	
	United States	649 296
	2002..	701 831
	1997..	128 156
	California	159 215
	2002..	15 774
	1997..	21 258
	Connecticut	71 259
	2002..	27 611
	1997..	108 386
	Illinois	138 421
	2002..	92 373
	1997..	103 992
	Michigan	36 029
	2002..	32 962
	1997..	9 135
	New York	N
	2002..	11 796
	1997..	N
	Ohio	
	2002..	
	1997..	
	Tennessee	
	2002..	
	1997..	
	Texas	
	2002..	
	1997..	

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
332212	Hand and edge tool manufacturing		
00900001	Total materials .....2002..	X	2 034 329
	.....1997..	X	1 857 313
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	57 148
	.....1997..	X	56 347
33200095	Other fabricated metal products (excluding castings and forgings) .....2002..	X	66 378
	.....1997..	X	117 374
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	81 487
	.....1997..	X	90 283
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	30 863
	.....1997..	X	19 152
33152003	Other nonferrous metal castings, rough and semifinished (including aluminum and aluminum-base alloy) .....2002..	X	11 257
	.....1997..	X	10 616
33211101	Iron and steel forgings .....2002..	X	33 417
	.....1997..	X	64 723
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	136 414
	.....1997..	X	306 051
33120073	Steel sheet, strip, and tin mill products .....2002..	X	89 353
	.....1997..	X	159 230
33120025	Steel wire and wire products .....2002..	X	19 945
	.....1997..	X	25 434
33120027	All other steel shapes and forms (excluding castings, forgings, fabricated metal products, bars, bar shapes, plate, sheet, strip, tin mill products, wire and wire products) .....2002..	X	290 126
	.....1997..	X	31 586
33142111	Copper and copper-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	2 856
	.....1997..	X	3 845
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
33100082	Other nonferrous metal shapes and forms (excluding aluminum and aluminum-base alloy and copper and copper-base alloy castings, forgings, and fabricated metal products) .....2002..	X	D
	.....1997..	X	N
32100047	Wood parts (including handles) .....2002..	X	67 306
	.....1997..	X	45 006
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	55 054
	.....1997..	X	36 150
32610003	Plastics products, including film, sheet, rod, tube, and fabricated shapes (including parts, handles, grips, etc.) .....2002..	X	93 975
	.....1997..	X	90 562
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	83 746
	.....1997..	X	73 737
00190090	Fluid power products .....2002..	X	8 122
	.....1997..	X	N
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	19 169
	.....1997..	X	N
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	542 030
	.....1997..	X	439 912
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	235 319
	.....1997..	X	287 305

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.